

| L Number | Hits | Search Text | DB | Time stamp |
|-------------|---------|---|-----------------------------------|---------------------|
| 1 | 3 | ("3590702") or ("4152943") or ("4454780").PN. | USPAT | 2003/02/27 23:27 |
| 2 | 0 | (2003/0021629).CCLS. | USPAT; US-PGPUB | 2003/02/27 23:27 |
| 3 | 0 | 2003/0021629 | US-PGPUB | 2003/02/27 23:27 |
| - | 1 | ("4481835").PN. | USPAT | 2002/05/13 10:01 |
| - | 0 | 404/\$.ccls. and 4481835.pn. | USPAT | 2002/04/26 10:31 |
| - | 964 | (first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) | USPAT | 2002/04/28 14:37 |
| - | 111926 | var\$5 and vibrat\$3 | USPAT | 2002/04/28 17:17 |
| - | 1170756 | variable or vary or varying | USPAT | 2002/04/26 13:06 |
| - | 598 | ((first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) and vibrat\$3 | USPAT | 2002/04/26 16:13 |
| - | 178 | ((first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) and vibrat\$3) and frequenc\$3 and amplitude | USPAT | 2002/04/26 16:13 |
| - | 0 | (first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) | US-PGPUB; EPO; JPO; DERWENT | 2002/04/26 16:13 |
| - | 291 | (first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) | US-PGPUB; EPO; JPO | 2002/04/26 16:13 |
| - | 131 | ((first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) and vibrat\$3 | US-PGPUB; EPO; JPO | 2002/04/26 16:13 |
| - | 7 | ((first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) and vibrat\$3) and frequenc\$3 and amplitude | US-PGPUB; EPO; JPO | 2002/04/26 16:14 |
| - | 557 | (first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 14:38 |
| - | 24996 | var\$5 and vibrat\$3 | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 14:39 |
| - | 64 | ((first or second or inner or outer) same (eccentric near5 (weight or mass\$2)) and (var\$5 and vibrat\$3) | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 14:39 |
| - | 647 | ((404/103) or (404/117) or (404/122) or (404/130)).CCLS. | USPAT; US-PGPUB | 2002/04/28 17:56 |
| - | 306 | ((404/117) or (404/130)).CCLS. | USPAT; US-PGPUB | 2002/04/28 15:29 |
| - | 1 | ("4586847").PN. | USPAT; | 2002/04/28 |
| - | 3 | 4586847.URPN. | US-PGPUB | 15:39 |
| - | 11 | ("2703490" "3108520" "3257918" "3543656" "3616730" "3656419" "3722381" "3814532" "3896677" "3909147" "4113034").PN. | USPAT | 2002/04/28 15:32 |
| - | 1 | ("4561319").PN. | USPAT; US-PGPUB | 2002/04/28 16:33 |
| - | 5 | 4561319.URPN. | USPAT | 2002/04/28 15:40 |
| - | 5 | ("2248182" "2930244" "3026781" "4289042" "4481835").PN. | USPAT | 2002/04/28 15:41 |
| - | 6 | 4481835.URPN. | USPAT | 2002/04/28 15:44 |

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|--|--------|---|--------------------|---------------------|
| | 11 | ("2930244" "3192839" "4108009" "4211121" "4319857" "4350460" "4353261" "4356736" "4367054" "4412757" "4440034").PN. | USPAT | 2002/04/28 15:45 |
| | 6 | 4481835.URPN. | USPAT | 2002/04/28 15:54 |
| | 381 | ((404/103) or (404/122)).CCLS. | USPAT; US-PGPUB | 2002/04/28 16:34 |
| | 339 | ((404/103) or (404/122)).CCLS.) not ((404/117) or (404/130)).CCLS.) | USPAT | 2002/04/28 16:34 |
| | 341 | ((404/103) or (404/122)).CCLS.) not ((404/117) or (404/130)).CCLS.) | USPAT; US-PGPUB | 2002/04/28 17:16 |
| | 111926 | var\$5 and vibrat\$3 | USPAT | 2002/04/28 17:49 |
| | 551036 | amplitude or frequency | USPAT | 2002/04/29 14:31 |
| | 248890 | (amplitude or frequency) same (index\$3 or adjust\$3 chang\$3 or var\$4) | USPAT | 2002/04/28 17:50 |
| | 248890 | (amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4) | USPAT | 2002/04/28 18:05 |
| | 248890 | ((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency) | USPAT | 2002/04/29 14:32 |
| | 562 | ((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency)) and (eccentric near3 (weight or mass\$2)) | USPAT | 2002/04/29 16:04 |
| | 44 | ((404/103) or (404/117) or (404/122) or (404/130)).CCLS.) and (((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency)) and (eccentric near3 (weight or mass\$2))) | USPAT | 2002/04/28 17:45 |
| | 2 | ("3590702" or ("4454780")).PN. | USPAT | 2002/04/28 17:45 |
| | 4 | 4454780.URPN. | USPAT | 2002/04/28 17:45 |
| | 10 | ("2677967" "2937537" "3277731" "3339422" "3433311" "3590702" "3736066" "4108009" "4152943" "4211121").PN. | USPAT | 2002/04/28 17:47 |
| | 6 | 3590702.URPN. | USPAT | 2002/04/28 17:47 |
| | 8 | ("2954726" "3145631" "3192839" "3283679" "3395626" "3411420" "3416419" "3437019").PN. | USPAT | 2002/04/28 17:48 |
| | 8 | ("2954726" "3145631" "3192839" "3283679" "3395626" "3411420" "3416419" "3437019").PN. | USPAT | 2002/04/28 17:49 |
| | 6 | 3590702.URPN. | USPAT | 2002/04/28 17:49 |
| | 11213 | var\$5 and vibrat\$3 | USOCR | 2002/04/28 17:50 |
| | 190170 | amplitude or frequency | USOCR | 2002/04/28 18:05 |
| | 132611 | (amplitude or frequency) same (index\$3 or adjust\$3 chang\$3 or var\$4) | USOCR | 2002/04/28 17:52 |
| | 132611 | (amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4) | USOCR | 2002/04/28 17:53 |
| | 607 | (amplitude or frequency) and (eccentric near3 (weight or mass\$2)) | USOCR | 2002/04/28 18:01 |
| | 387 | ((404/103) or (404/117) or (404/122) or (404/130)).CCLS. | USOCR | 2002/04/28 17:57 |
| | 15 | ((amplitude or frequency) and (eccentric near3 (weight or mass\$2))) and (((404/103) or (404/117) or (404/122) or (404/130)).CCLS.) | USOCR | 2002/04/29 14:35 |
| | 429 | ((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (eccentric near3 (weight or mass\$2)) | USOCR | 2002/04/28 18:01 |

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|--|---------|---|-----------------------------------|---------------------|
| | 10 | ((404/103) or (404/117) or (404/122) or (404/130)).CCLS.) and (((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (eccentric near3 (weight or mass\$2))) | USOCR | 2002/04/28 18:01 |
| | 913992 | amplitude or frequency | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 18:05 |
| | 184995 | (amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4) | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 18:06 |
| | 147 | ((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (eccentric near3 (weight or mass\$2))) | US-PGPUB; EPO; JPO; DERWENT | 2002/04/28 18:07 |
| | 10 | 5177415.URPN. | USPAT | 2002/04/28 18:26 |
| | 5 | 5164641.URPN. | USPAT | 2002/04/28 18:26 |
| | 12 | ((404/133.05-133.2).CCLS.) and (((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency)) and (eccentric near3 (weight or mass\$2))) | USPAT | 2002/04/28 18:30 |
| | 451 | (404/133.05-133.2).CCLS. | USPAT | 2002/04/28 18:32 |
| | 992 | ((74/61) or (74/87)).CCLS. | USPAT; US-PGPUB | 2002/04/29 15:24 |
| | 579785 | amplitude or frequency | USPAT; US-PGPUB | 2002/04/29 15:24 |
| | 2359162 | (index\$3 or adjust\$3 or chang\$3 or var\$4) | USPAT; US-PGPUB | 2002/04/29 15:24 |
| | 260594 | (amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4)) | USPAT; | 2002/04/29 |
| | 2514 | (eccentric near3 (weight or mass\$2)) | US-PGPUB | 14:35 |
| | 588 | ((amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4))) and ((eccentric near3 (weight or mass\$2))) | USPAT; US-PGPUB | 2002/04/29 15:24 |
| | 90 | ((74/61) or (74/87)).CCLS.) and (((amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4))) and ((eccentric near3 (weight or mass\$2)))) | USPAT; US-PGPUB | 2002/04/29 14:38 |
| | 684 | ((74/61) or (74/87)).CCLS. | USOCR | 2002/04/29 15:24 |
| | 190170 | amplitude or frequency | USOCR | 2002/04/29 15:24 |
| | 1399743 | (index\$3 or adjust\$3 or chang\$3 or var\$4) | USOCR | 2002/04/29 15:26 |
| | 1803 | (eccentric near3 (weight or mass\$2)) | USOCR | 2002/04/29 15:26 |
| | 132611 | (amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4)) | USOCR | 2002/04/29 15:27 |
| | 429 | ((eccentric near3 (weight or mass\$2))) and ((amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4))) | USOCR | 2002/04/29 15:27 |
| | 105 | ((74/61) or (74/87)).CCLS.) and ((eccentric near3 (weight or mass\$2))) and ((amplitude or frequency) same ((index\$3 or adjust\$3 or chang\$3 or var\$4)))) | USOCR | 2002/04/29 16:03 |

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|---|-----|--|-------|---------------------|
| - | 75 | (("4454780") or ("4499779") or ("6234718") or ("4342523") or ("4586847") or ("4595384") or ("4759659") or ("5209331") or ("5788408") or ("5868522") or ("5984572") or ("4089616") or ("3598029") or ("4152943") or ("4319857") or ("4350460") or ("4362431") or ("4592696") or ("4964753") or ("5697733") or ("6132133") or ("4265130") or ("3828864") or ("4042181") or ("4617832") or ("4758114") or ("4804463") or ("4927289") or ("4928554") or ("4940336") or ("5014564") or ("5283970") or ("5392898") or ("5584375") or ("6033031") or ("6145652") or ("6321610") or ("5320448") or ("4353261") or ("4367054") or ("5387052") or ("3561336") or ("5678271") or ("6109111") or ("4577995") or ("5618133") or ("4950135") or ("4276157") or ("4340469") or ("4616716") or ("4959950") or ("5178258") or ("5367505") or ("4807487") or ("6161650") or ("4312242") or ("4619532") or ("4819740") or ("5564824") or ("5988297") or ("3859759") or ("4040303") or ("4149530") or ("4108009") or ("4288165") or ("4301625") or ("4319993") or ("4329817") or ("4340351") or ("4343568") or ("4348912") or ("4425813") or ("4452016") or ("4461122") or ("4495826")).PN. | USPAT | 2002/04/29 16:03 |
| - | 562 | (((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency)) and (eccentric near3 (weight or mass\$2)) | USPAT | 2002/04/29 16:07 |

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|---|--------|--|-------|---------------------|
| - | 26 | <pre> ((("4454780") or ("4499779") or ("6234718") or ("4342523") or ("4586847") or ("4595384") or ("4759659") or ("5209331") or ("5788408") or ("5868522") or ("5984572") or ("4089616") or ("3598029") or ("4152943") or ("4319857") or ("4350460") or ("4362431") or ("4592696") or ("4964753") or ("5697733") or ("6132133") or ("4265130") or ("3828864") or ("4042181") or ("4617832") or ("4758114") or ("4804463") or ("4927289") or ("4928554") or ("4940336") or ("5014564") or ("5283970") or ("5392898") or ("5584375") or ("6033031") or ("6145652") or ("6321610") or ("5320448") or ("4353261") or ("4367054") or ("5387052") or ("3561336") or ("5678271") or ("6109111") or ("4577995") or ("5618133") or ("4950135") or ("4276157") or ("4340469") or ("4616716") or ("4959950") or ("5178258") or ("5367505") or ("4807487") or ("6161650") or ("4312242") or ("4619532") or ("4819740") or ("5564824") or ("5988297") or ("3859759") or ("4040303") or ("4149530") or ("4108009") or ("4288165") or ("4301625") or ("4319993") or ("4329817") or ("4340351") or ("4343568") or ("4348912") or ("4425813") or ("4452016") or ("4461122") or ("4495826")).PN.) and (((amplitude or frequency) same (index\$3 or adjust\$3 or chang\$3 or var\$4)) and (amplitude or frequency)) and (eccentric near3 (weight or mass\$2))) </pre> | USPAT | 2002/04/29 16:08 |
| - | 1 | ("4152943").PN. | USPAT | 2002/05/12 15:18 |
| - | 1 | ("4586847").PN. | USPAT | 2002/05/12 16:03 |
| - | 11 | ("2703490" "3108520" "3257918" "3543656" "3616730" "3656419" "3722381" "3814532" "3896677" "3909147" "4113034").PN. | USPAT | 2002/05/12 15:18 |
| - | 3891 | handwheel or 'hand-wheel' and spokes | USPAT | 2002/05/12 16:06 |
| - | 137747 | (404/\$ or 74/\$).ccls. | USPAT | 2002/05/12 16:04 |
| - | 252 | (handwheel or 'hand-wheel' and spokes) and ((404/\$ or 74/\$).ccls.) | USPAT | 2002/05/12 16:04 |
| - | 1998 | ((404/103) or (404/117) or (404/122) or (404/130) or (404/133.05-133.2) or (74/61) or (74/87)).CCLS. | USPAT | 2002/05/12 16:05 |
| - | 5 | (handwheel or 'hand-wheel' and spokes) and (((404/103) or (404/117) or (404/122) or (404/130) or (404/133.05-133.2) or (74/61) or (74/87)).CCLS.) | USPAT | 2002/05/12 16:05 |
| - | 99 | (handwheel or 'hand-wheel') and spokes | USPAT | 2002/05/12 16:07 |
| - | 0 | ((handwheel or 'hand-wheel') and spokes) and (((404/103) or (404/117) or (404/122) or (404/130) or (404/133.05-133.2) or (74/61) or (74/87)).CCLS.) | USPAT | 2002/05/12 16:06 |

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|--|------|---|--------------------|---------------------|
| | 8 | ((404/\$ or 74/\$).ccls.) and ((handwheel or 'hand-wheel') and spokes) | USPAT | 2002/05/12 16:07 |
| | 4 | (("4527680") or ("4152943") or ("6241420") or ("4454780")).PN. | USPAT | 2002/05/13 10:02 |
| | 1 | ("4350460").PN. | USPAT | 2003/02/27 12:10 |
| | 934 | ((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130)).CCLS. | USPAT; US-PGPUB | 2003/02/27 14:54 |
| | 1862 | ((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS. | USPAT; US-PGPUB | 2003/02/27 15:03 |
| | 3186 | eccentric near5 (weight or mass\$2) | USPAT; US-PGPUB | 2003/02/27 15:03 |
| | 254 | ((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) | USPAT; US-PGPUB | 2003/02/27 15:00 |
| | 249 | ((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase) | USPAT; US-PGPUB | 2003/02/27 15:04 |
| | 1222 | ((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS. | USOCR | 2003/02/27 15:03 |
| | 2146 | eccentric near5 (weight or mass\$2) | USOCR | 2003/02/27 15:04 |
| | 265 | ((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) | USOCR | 2003/02/27 15:04 |
| | 253 | ((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase) | USOCR | 2003/02/27 15:04 |
| | 202 | (((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase)) and (index\$3 or adjust\$3 or chang\$3 or var\$4) | USOCR | 2003/02/27 15:07 |
| | 213 | (((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase)) and (index\$3 or adjust\$3 or chang\$3 or vary or varying) | USOCR | 2003/02/27 15:06 |
| | 214 | (((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase)) and (index\$3 or adjust or adjusted or adjusting or chang\$3 or vary or varying or varied) | USOCR | 2003/02/27 15:08 |
| | 221 | (((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase)) and (index\$3 or adjust\$3 or chang\$3 or var\$4) | USPAT; US-PGPUB | 2003/02/27 16:30 |
| | 4 | ((("4152943") or ("4454780") or ("4527680") or ("6241420"))).PN. | USPAT | 2003/02/27 19:25 |

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|---|-----|--|--------------------|---------------------|
| - | 4 | 4454780.URPN. | USPAT | 2003/02/27 16:36 |
| - | 10 | ("2677967" "2937537" "3277731" "3339422" "3433311" "3590702" "3736066" "4108009" "4152943" "4211121").PN. | USPAT | 2003/02/27 16:41 |
| - | 6 | 4152943.URPN. | USPAT | 2003/02/27 16:46 |
| - | 6 | ("3026781" "3590702" "3722381" "3736066" "3871788" "3892496").PN. | USPAT | 2003/02/27 16:48 |
| - | 6 | 4152943.URPN. | USPAT | 2003/02/27 16:52 |
| - | 3 | (("3590702") or ("2937537") or ("4350460")).PN. | USPAT | 2003/02/27 16:57 |
| - | 8 | ("2954726" "3145631" "3192839" "3283679" "3395626" "3411420" "3416419" "3437019").PN. | USPAT | 2003/02/27 16:53 |
| - | 6 | 3590702.URPN. | USPAT | 2003/02/27 16:55 |
| - | 8 | ("2954726" "3145631" "3192839" "3283679" "3395626" "3411420" "3416419" "3437019").PN. | USPAT | 2003/02/27 16:55 |
| - | 6 | 2937537.URPN. | USPAT | 2003/02/27 16:56 |
| - | 3 | 4350460.URPN. | USPAT | 2003/02/27 16:56 |
| - | 5 | ((("3590702") or ("2937537") or ("4350460") or ("4152943") or ("4454780")).PN. | USPAT | 2003/02/27 19:09 |
| - | 764 | (sodium adj bentonite) same bentonite | USPAT | 2003/02/27 19:09 |
| - | 764 | (sodium adj bentonite)and bentonite | USPAT | 2003/02/27 19:10 |
| - | 764 | (sodium adj bentonite)near7 bentonite | USPAT | 2003/02/27 19:11 |
| - | 214 | ((((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and (eccentric near5 (weight or mass\$2))) and (vibrat\$3 or amplitude or frequenc\$3 or phase)) and (index\$3 or adjust or adjusted or adjusting or chang\$3 or vary or varying or varied) (((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and drum and engine | USOCR | 2003/02/27 19:18 |
| - | 53 | (((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and drum and engine | USPAT; US-PGPUB | 2003/02/27 19:26 |
| - | 28 | (((404/102-103) or (404/113) or (404/117) or (404/122) or (404/130) or (74/61) or (74/87)).CCLS.) and drum and engine) and pump and motor | USPAT; US-PGPUB | 2003/02/27 23:25 |